

1. If Jimbo watches three episodes of his favourite elephant soap called 'Free food for all' in each week, how many episodes does he watch in two weeks?

How many episodes does he watch in three weeks?

2. Dad was tiling the kitchen. For every 5 green tiles he used 2 yellow tiles. How many green tiles did he need for 4 yellow tiles?

Complete the table below:

Green tiles	Yellow tiles
5	2
	4
	6
	10
	20



3. In the Happy shop you can buy packs of four pencils and one rubber. How many pencils and rubbers do you get in two packs?
How many pencils and rubbers do you get in four packs?

4. To get one Dotty Cat Food token you must buy three packets of flakes. How many packets must you buy to get five Dotty Cat Food tokens?
How many tokens would you get if you bought 21 packets of flakes?

5. Each month Jimbo spends 5 days helping at the zoo. How many days is he helping in three months?

Complete the table.

Number of months	Number of days at the zoo
1	5
3	
5	
10	
12	

1. Olivia likes to have lots of rose bushes in her garden. For every four red rose bushes she plants, she also plants one white rose bush. If she plants 24 red rose bushes, how many white rose bushes does she plant.

2. Jimbo, the teacher, takes his children to the zoo. For every six tickets he buys, he gets one free.

Complete the table to show the number of tickets he would need to buy.

Number of tickets bought	Number of free tickets
6	1
	4
	8
	10
	12



3. Mrs Trout, a swimming instructor, recommends that her pupils should swim two lengths of crawl for every three lengths breast stroke.

Sam swims 30 lengths breast stroke. How many lengths crawl should he swim?



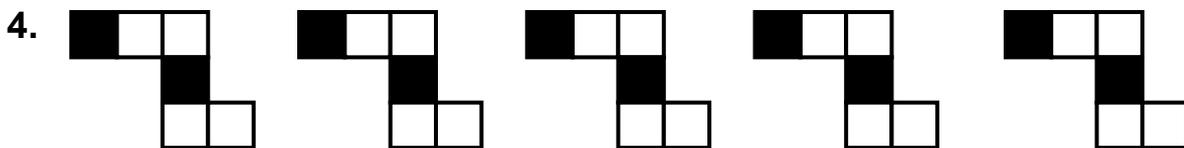
4. Harry can build five model ships with one pack of balsa wood. How many ships can he build with 7 packs of balsa wood?

How many packs of balsa wood does he need for 25 ships?



Here are some more ratio questions. Good luck!!!!

1. Michael makes models out of cement. The models take three hours to harden for every kilogram of cement used.
How long does a 15 kg model take to set?
2. Tara uses 60 cm of ribbon to decorate two cakes.
How much ribbon does she need for six cakes?
How many cakes can she decorate with 240 cm of ribbon?
3. There are 24 pupils in a chess club. There are two boys for every girl.
How many girls are there?
- How many boys are there?



Sharon makes these shapes from six squares each.

How many coloured squares are there in each pattern?

How many white squares are there in each pattern?

If she drew 20 of the shapes, how many coloured squares would she draw?

5. Danny is painting his house. He needs $2\frac{1}{2}$ litres of paint for each wall.
How much paint does he need for six walls?
- How many walls could he paint with $7\frac{1}{2}$ litres of paint?

1. Lottie is making strings of beads. She puts three red beads on a string for every four yellow beads.

If she makes a string with thirty red beads, how many yellow beads will she use?

What do you think, guys?



If she uses sixteen yellow beads, how many red beads will she need?

2. I can exchange one pound for three New Zealand dollars.

How many New Zealand dollars can I get for £10 ?

How many pounds can I get for 18 New Zealand dollars?

3. At feeding time, an adult cat receives 400 g of food and its kitten receives 150 g.

How much does **each** cat receive during six meals?

How much food has the kitten eaten by the time the adult cat has eaten 1 200 g?

4. An architect is designing a housing estate. For every two semi-detached houses, he includes seven terraced houses.

If there are twenty semi-detached houses in one road, how many terraced houses should there be?

If there are 91 terraced houses in a road, how many semi-detached houses are there?

5. In a sweet jar there are two red sweets for every three green ones.

If there are twenty five sweets altogether, how many are red and how many are green?

6. A factory produces large and small mugs. They make three large mugs for every four small ones.

In one day they make 1 400 mugs altogether.

How many are large and how many are small?

Another day they make 330 large mugs. How many small ones do they make?



Try answering these word problems.

1. Jane has 15 pencils. She has three blue ones for every two red ones. How many red ones does she have?
2. A builder mixes one part of cement with four parts of sand to make mortar.
If he mixes up 100 kg altogether, how much is cement?

How much is sand?

3. In a box of sweets, there are 3 boiled sweets to every 2 mints.
If there are 25 sweets in the box altogether, how many of them are boiled sweets and how many are mints?
4. In painting a house, John uses twice as much undercoat as he does gloss. If he uses 60 litres of paint altogether, how much undercoat and how much gloss does he use?

What proportion of undercoat does he use?

5. One carpet covers 12 m^2 . Another covers 48 m^2 .
What proportion of both carpets does the smaller carpet cover?
What proportion does the larger carpet cover?
6. A small bookshelf holds 120 books and a large bookshelf holds 360 books.
What proportion of all the books does the smaller shelf hold?

What proportion of all the books does the larger shelf hold?

7. Two DVD racks hold 280 DVDs altogether. One holds three DVDs for every four the other holds.
How many DVDs does each rack hold?
8. John and Ken use the telephone a lot. John makes 4 calls for every 6 that Ken makes. They make 260 calls altogether.
How many calls do John and Ken make each?

What proportion of all the calls does Ken make?



Answers

Page 1

1. 6, 9
2. 5 2
10 4
15 6
25 10
50 20
3. 8 pencils 2 rubbers, 16 pencils 4 rubbers
4. 15 packets, 7 tokens
5. 15 days
1 5
3 15
5 25
10 50
12 60

Page 2

1. 6
2. 6 1
24 4
48 8
60 10
72 12
3. 20
4. 35 ships, 5 packs

Page 3

1. 45 hours
2. 180 cm, 8 cakes
3. 8 girls, 16 boys
4. two, four, forty
5. 15 litres, three.

Answers continued

Page 4

1. forty, twelve
2. 30 New Zealand dollars, £6
3. Cat 2 400 g, kitten 900 g, 450 g
4. 70, 26
5. 10 red, 15 green
6. 600 large, 800 small
440 small

Page 5

1. 6 red
2. 20 kg cement. 80 kg sand.
3. 15 boiled 10 mints
4. 40 litres undercoat, 20 litres gloss. $\frac{2}{3}$
5. $\frac{1}{5}$ $\frac{4}{5}$
6. $\frac{1}{4}$ $\frac{3}{4}$
7. 120 and 160
8. John makes 104 Ken makes 156. $\frac{6}{10}$ or $\frac{3}{5}$